

PHD POSITION IN NEUTRINO EXPERIMENTAL PHYSICS AT CIEMAT (Madrid- Spain)

AM-OTECH *(EIC-PATHFINDER-H2020)*

The CIEMAT Neutrino Group at the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) in Madrid (Spain) is seeking candidates for a 4-year PhD Position in Experimental Neutrino Physics to work on the new LiquidO technology in the scope of the EIC-Pathfinder project AM-OTech (<https://antimatter-otech.ijclab.in2p3.fr/>).

The AM-OTech project aims to construct and operate a 5-tonne neutrino detector based on LiquidO technology for nuclear reactor applications. A fundamental science programme is also associated to this project. The CIEMAT Neutrino Group is assuming responsibilities in the design and construction of the detector and is involved in the simulation and data analysis of the experiment.

The CIEMAT Neutrino Group has a long experience in Reactor Neutrino Experiments and is also participating in DUNE and SBND experiments at Fermilab, as well as, in the ProtoDUNE program at CERN Neutrino Platform.

The **4-year PhD contract** (*Formación de Personal Investigador Predoctoral – FPI*) is published at the CIEMAT Job Openings website (<https://www.ciemat.es/cargarAplicacionOfertaEmpleo.do?identificador=2259>) The deadline for applications is September 29, 2023

The candidate must have a Master's Degree in Physics or similar at the time of the application, a good English knowledge and strong interest in the neutrino physics field. Experience in C++ and Python programming will be also valuable. For further information, interested candidates are encouraged to contact Carmen Palomares (mc.palomares@ciemat.es).

The CIEMAT Particle Physics Unit is an affirmative action/equal opportunity employer. Eliminating gender inequalities by promoting equal opportunities for men and women is a core compromise of our group and it is our commitment to establish the necessary actions to close the gender gap. More information in en <http://cfp.ciemat.es/equality>